FILE 'HOME' ENTERED AT 09:36:32 ON 04 FEB 2009

=> file reg

 COST IN U.S. DOLLARS
 SINCE FILE
 TOTAL

 ENTRY
 SESSION

 FULL ESTIMATED COST
 0.22
 0.22

FILE 'REGISTRY' ENTERED AT 09:36:41 ON 04 FEB 2009 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 2 FEB 2009 HIGHEST RN 1099859-47-8 DICTIONARY FILE UPDATES: 2 FEB 2009 HIGHEST RN 1099859-47-8

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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http://www.cas.org/support/stngen/stndoc/properties.html

= 2

Uploading C:\Program Files\Stnexp\Oueries\10574157.str

chain nodes :

```
11 13 14 15 16 17 18 19 21 22 25 ring nodes:
1 2 3 4 5 6 7 8 9 chain bonds:
8-11 13-14 13-15 13-16 16-17 16-25 17-18 17-22 18-19 18-21 ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 exact/norm bonds:
5-7 6-9 7-8 8-9 8-11 13-14 13-15 13-16 16-17 16-25 17-18 17-22 18-19 18-21 normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6
```

G1:0,S

G2:Cb, Hy, Ak, Ph

G3:OH, SH, NH2, H

G4:C,H,N

=> d L1 HAS NO ANSWERS

Match level: 1:1Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 21:CLASS 22:CLASS 25:CLASS 25:CLASS 25:CLASS 25:CLASS 25:Atom 25:

# L1 STRUCTURE UPLOADED

G1 O.S

G2 Cb, Hv, Ak, Ph

G3 OH, SH, NH2, H

G4 C, H, N

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss sam SAMPLE SEARCH INITIATED 09:37:09 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 102 TO ITERATE

100.0% PROCESSED 102 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 1435 TO 2645
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 sss full FULL SEARCH INITIATED 09:37:18 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 2261 TO ITERATE

100.0% PROCESSED 2261 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

Uploading C:\Program Files\Stnexp\Queries\10574157A.str

chain nodes:
11 13 14 15 16 17 18 19 21 22 26
ring nodes:
1 2 3 4 5 6 7 8 9
chain bonds:
8-11 13-14 13-15 13-26 16-26 16-17 17-18 17-22 18-19 18-21

ring bonds:
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds:
5-7 6-9 7-8 8-9 8-11 13-14 13-15 13-26 16-26 16-17 17-18 17-22 18-19
18-21
normalized bonds:
1-2 1-6 2-3 3-4 4-5 5-6

G1:0.S

G2:Cb, Hy, Ak, Ph

G3:OH, SH, NH2, H

G4:C,H,N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:Atom 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 21:CLASS 22:CLASS 25:Atom 26:CLASS 25:Atom 26:CLASS 25:Atom 26:CLASS 25:Atom 26:CLASS

#### L4 STRUCTURE UPLOADED

=> d L4 HAS NO ANSWERS L4 STR

- G1 O,S
- G2 Cb, Hy, Ak, Ph
- G3 OH, SH, NH2, H
- G4 C, H, N

Structure attributes must be viewed using STN Express query preparation.

=> s 14 sss sam

SAMPLE SEARCH INITIATED 09:40:46 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 67 TO ITERATE

100.0% PROCESSED 67 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\* BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 849 TO 1831 PROJECTED ANSWERS: 0 TO

0 SEA SSS SAM L4

=> s 14 sss full FULL SEARCH INITIATED 09:40:52 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1448 TO ITERATE

20 SEA SSS FUL L4

100.0% PROCESSED 1448 ITERATIONS 20 ANSWERS

374.38

SEARCH TIME: 00.00.01

=> file capl

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 374.16

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 09:40:59 ON 04 FEB 2009 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 4 Feb 2009 VOL 150 ISS 6 FILE LAST UPDATED: 3 Feb 2009 (20090203/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

L7 6 L6

=> d 1-6 ibib hitstr

L7 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1469854 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER: 148:100596

TITLE: Preparation of aminobenzothiazolylsulfonamide

derivatives as HIV protease inhibitors

INVENTOR(S): De Kock, Herman; Jonckers, Tim Hugo Maria; Boonants,

Paul Jozef Gabriel Maria; Last, Stefaan Julien; Dierynck, Inge; Baumeister, Judith Eva; Van 'T

Klooster, Gerben Albert Eleutherius
PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 38pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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	WO	2007				A1		2007										
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			CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FΙ,
			GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
			KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
	MG, MK, MN					MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,
	PT, RO, RS					RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,
	TR, TT, TZ				TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW				
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			IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
			BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,
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	AU 2007262943							2007	1227		AU 2	007-	2629	43		2	0070	622
PRIC	ORITY	APP:	LN.	INFO	. :						EP 2	006-	1160	03	- 1	A 2	0060	623
											WO 2	007-	EP56:	235	1	7 2	0070	622

OTHER SOURCE(S): MARPAT 148:100596

IT 1000287-01-3

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of aminobenzothiazolylsulfonamide derivs. as HIV protease inhibitors)

RN 1000287-01-3 CAPLUS

CN Carbamic acid, N-[(1S,2R)-2-hydroxy-3-[(2-methylpropy1)[[2-

(methylsulfonyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl], (3R, 3aS, 6aR)-hexahydrofuro[2,3-b]furan-3-yl ester (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:527407 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER: 143:59982

TITLE: Preparation of HIV protease inhibitors, in particular

imidazolidine derivatives

Flentge, Charles A.; Chen, Hui-Ju; Degoey, David A.; INVENTOR(S): Flosi, William J.; Grampovnik, David J.; Huang, Peggy

P.; Kempf, Dale J.; Klein, Larry L.; Krueger, Allan C.; Madigan, Darold L.; Randolph, John T.; Sun, Minghua; Yeung, Ming C.; Zhao, Chen

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 287 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PR

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US CA	2005 2549 2005	0131 389	042		A1 A1		2005	0707		CA 2	003- 004-	2549	389		2	0041	110
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EP	1709	037		·	A2												
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	2006	0066	10		A					MX 2 US 2		6610 7339:	15	i	A 2	0060 0031	609 211
HER S					MAR	PAT	143:	5998	2								

IT

854744-56-2P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antiviral agent; preparation of HIV protease inhibitors, in particular imidazolidine derivs.)

RN 854744-56-2 CAPLUS

1-Imidazolidineacetamide, N-[(1S,2R)-3-[[(2,3-dihydro-2-oxo-6-benzoxazolyl)sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]- $\alpha$ -(1-methylethyl)-3-[(2-methyl-4-thiazolyl)methyl]-2-oxo-, ( $\alpha$ S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

=0

CN

IT 854746-44-4P, tert-Butyl [(1S,2R)-1-benzyl-2-hydroxy-3[isobutyl[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-

yl)sulfonyl]amino]propyl]carbamate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of HIV protease inhibitors, in particular imidazolidine derivs.)

RN 854746-44-4 CAPLUS

CN Carbamic acid, [(15,28)-3-[[(2,3-dihydro-2-oxo-6-benzoxazolyl)sulfonyl](2methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

L7 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:300421 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER: 142:373819

TITLE: Methods for the preparation of aminohydroxypropyl benzooxazolesulfonamides as intermediates in the

preparation of HIV protease inhibitors

INVENTOR(S): De Kock, Herman Augustinus; Filliers, Walter Ferdinand

Maria; Aelterman, Wim Albert Alex

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire. CODEN: PIXXD2

SOURCE: PCT Int. Appl., 65 pp.

DOCUMENT TYPE:

Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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	2005														2	0040	930	
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		SN,	TD,	TG														
AU	2004	2760	17		A1		2005	0407		AU 2	2004-	2760	17		2	0040	930	
AU 2004276017 CA 2537877					A1		2005	0407		CA 2	004-	2537	877		2	0040	930	
EP 1670773					A1		2006	0621		EP 2	2004-	7668	69		2	0040	930	
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IN 2006DN00930 KR 2006092224																		
US 20070123574 MX 2006003575											2006-							
	2006				A		2006	0502		NO 2	2006-	1951			2	0060	502	
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										US 2	2003- 2003-	5079	96P		P 2	0031	002	
										WO 2	2004-	EP52	382		W 2	0040	930	

### OTHER SOURCE(S):

CASREACT 142:373819; MARPAT 142:373819 849611-71-8P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)

(key intermediate; methods for the preparation of aminohydroxypropyl benzoxazolesulfonamides as intermediates in the preparation of HIV protease inhibitors)

RN 849611-71-8 CAPLUS

CN Carbamic acid, [2-hydroxy-3-[(2-methylpropy1)[[2-(methylthio)-6benzoxazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

.7 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:67041 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER: 142:309248

TITLE: Design of HIV-1 Protease Inhibitors Active on

Multidrug-Resistant Virus

AUTHOR(S): Surleraux, Dominique L. N. G.; De Kock, Herman A.;

Verschueren, Wim G.; Pille, Geert M. E.; Maes, Louis

J. R.; Peeters, Anik; Vendeville, Sandrine; De Meyer,
Sandra; Azijn, Hilde; Pauwels, Rudi; De Bethune,

Marie-Pierre; King, Nancy M.; Prabu-Jeyabalan, Moses; Schiffer, Celia A.; Wigerinck, Piet B. T. P.

CORPORATE SOURCE: Tibotec BVBA, Mechelen, B-2800, Belg.

SOURCE: Journal of Medicinal Chemistry (2005), 48(6),

1965-1973

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:309248

T 470704-93-9 848253-11-2

RL: RCT (Reactant); RACT (Reactant or reagent)

(design of HIV-1 protease inhibitors active on multidrug-resistant virus)

RN 470704-93-9 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-thioxo- (CA INDEX NAME)

Absolute stereochemistry.

RN 848253-11-2 CAPLUS

CN Carbamic acid, [(15,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylsulfinyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenyll-methyl]propyl]-, (3R,386,6aR)-hexahydrofuro[2,3-b]furan-3-yl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

46

L7 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 2002:814117 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER:

REFERENCE COUNT:

137:325410

TITLE: Broad-spectrum

2-(substituted-amino)-benzothiazolesulfonamide HIV protease inhibitors

INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Wigerinck,
Piet Tom Bert Paul; Getman, Daniel; Verschueren, Wim

Gaston; Vendeville, Sandrine; De Bethune, Marie-Pierre; De Kerpel, Jan Octaaf Antoon; Moors,

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS

Samuel Leo Christiaan; De Kock, Herman Augustinus; Voets, Marieke Christiane Johanna

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire. SOURCE: PCT Int. Appl., 83 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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	2002				A2	_	2002	1024		WO 2	002-	EP17	88		2	0020	214
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		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
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HU	2003	0032	57		A2		2004	0128	Н	U	2003-3257			20020214
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JP	2004	51876	67		T		2004	0624	J	P	2002-581413			20020214
CN	1525	962			A		2004	0901	C	N	2002-804982			20020214
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NZ	5273	91			A		2005	0429	N	IZ	2002-527391			20020214
AP	1504				A		2006	0228	A	P	2003-2856			20020214
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AT	3435	67			T		2006	1115	A	Т	2002-729930			20020214
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CN	1012	3006	7		A		2008	0730	C	N	2007-1019971	7		20020214
ZA	2003	0060	86		A		2004	1108	Z	Α	2003-6086			20030806
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KR	8701	34			B1		2008	1124	K	R	2003-710506			20030808
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											2001-287758P		P	20010502
									C	N	2002-804982		A3	20020214
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OTHER SOURCE(S): MARPAT 137:325410

T 473739-21-8P 473739-22-9P 473739-23-0P 473739-27-4P 473739-28-5P 473739-29-6P 473739-30-9P 473739-31-0P 473739-32-1P

473739-33-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(broad-spectrum 2-aminobenzothiazolesulfonamide HIV protease inhibitors)

RN 473739-21-8 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)][(2-(methylthio)-6-benzothiazolyl]suifonyl]amino|-1-(phenylmethyl)propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 473739-22-9 CAPLUS

CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)][[2-(methylsulfinyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethylpropyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

- RN 473739-23-0 CAPLUS
- CN Carbamic acid, [(1S,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylsulfonyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyllpropyl]-, 1,1-dimethylethyl ester (9C1) (CA INDEX NAME)

## Absolute stereochemistry.

- RN 473739-27-4 CAPLUS
- CN 6-Benzothiazolesulfonamide, N-[(2R,3S)-3-amino-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)-2-(methylthio)- (CA INDEX NAME)

### Absolute stereochemistry.

- RN 473739-28-5 CAPLUS

RN 473739-29-6 CAPLUS

CN Butanamide, 2-amino-N-[(1S,2R)-2-hydroxy-3-[(2-methylpropy1)[[2-(methylthio)-6-benzothiazoly1]sulfony1]amino]-1-(phenylmethyl)propy1]-3,3-dimethyl-, (2S) - (CA INDEX NAME)

Absolute stereochemistry.

- RN 473739-30-9 CAPLUS
- CN Butanamide, 2-[(2-chloroacetyl)amino]-N-[(15,2R)-2-hydroxy-3-[(2-methylpropyl)][[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3,3-dimethyl-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

- RN 473739-31-0 CAPLUS
- CN L-Valinamide, N-[(3-fluorophenyl)methyl]glycyl-N-[(15,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl-(9C1) (CA INDEX NAME)

RN 473739-32-1 CAPLUS

CN L-Valinamide, N-[(1,1-dimethylethoxy)carbonyl]-N-[(3fluorophenyl)methyl]glycyl-N-[(15,2R)-2-hydroxy-3-[(2-methylpropyl)][[2-(methylthio)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3methyl- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

\_ SMe

RN 473739-33-2 CAPLUS

CN L-Valinamide, N-[(1,1-dimethylethoxy)carbonyl]-N-[(3fluorophenyl)methyl]glycyl-N-[(15,2R)-2-hydroxy-3-[(2-methylpropyl)[[2-(methylsulfinyl)-6-benzothiazolyl]sulfonyl]amino]-1-(phenylmethyl)propyl]-3-methyl- (9CI) (CA INDEX NAME)

PAGE 1-B

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

3 L7 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:793630 CAPLUS <<LOGINID::20090204>>

DOCUMENT NUMBER: 137:310904

TITLE: Preparation of 2-(substituted-amino)benzoxazole sulfonamides as broadspectrum HIV protease inhibitors

INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Vendeville, Sandrine Marie Helene; Verschueren, Wim

Gaston; De Bethune, Marie-Pierre T. M. M. G.; De Kock, Herman Augustinus; Tahri, Abdellah; Erra Sola,

Montserrat

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2002081478	A2 20021017	WO 2002-EP4012	20020409
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		DZ, EC, EE, ES, FI, GB,	
GM, HR, HU,	ID, IL, IN, IS,	JP, KE, KG, KP, KR, KZ,	LC, LK, LR,
LS, LT, LU,	LV, MA, MD, MG,	MK, MN, MW, MX, MZ, NO,	NZ, OM, PH,
PL, PT, RO,	RU, SD, SE, SG,	SI, SK, SL, TJ, TM, TN,	TR, TT, TZ,
UA, UG, US,	UZ, VN, YU, ZA,	ZM, ZW	
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OTHER SOURCE(S): MARPAT 137:310904

## IT 470704-91-7P 470704-93-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aminobenzoxazole sulfonamides as broad-spectrum HIV protease inhibitors)

RN 470704-91-7 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-oxo- (CA INDEX NAME)

Absolute stereochemistry.

RN 470704-93-9 CAPLUS

CN 6-Benzoxazolesulfonamide, N-[(2R,3S)-3-[bis(phenylmethyl)amino]-2-hydroxy-4-phenylbutyl]-2,3-dihydro-N-(2-methylpropyl)-2-thioxo- (CA INDEX NAME)

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REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

SESSION RESUMED IN FILE 'CASREACT' AT 13:43:58 ON 19 MAR 2009 FILE 'CASREACT' ENTERED AT 13:43:58 ON 19 MAR 2009 COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

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 SINCE FILE
 TOTAL

 BNTRY
 SESSION

 FULL ESTIMATED COST
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#### G1:C,H

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS fragments assigned reactant role: containing 1 fragments assigned product role: containing 10

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FILE CONTENT: 1840 - 15 Mar 2009 VOL 150 ISS 12

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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SCREENING COMPLETE -

56 REACTIONS TO VERIFY FROM 4 DOCUMENTS

100.0% DONE 56 VERIFIED 0 HIT RXNS 0 DOCS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
PROJECTED VERIFICATIONS: 672 TO 1568
PROJECTED ANSWERS: 0 TO 0

L8

=> s 16 sss full

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SCREENING COMPLETE - 561 REACTIONS TO VERIFY FROM 52 DOCUMENTS

8 DOCS

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561 VERIFIED 44 HIT RXNS

8 SEA SSS FUL L6 ( 44 REACTIONS)

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The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

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ANSWER 1 OF 1 CASREACT COPYRIGHT 2009 ACS on STN

RX(5) OF 6

REF: Journal of Organic Chemistry, 60(17), 5721-5; 1995

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AUTHOR(S):

PUBLISHER:

SOURCE:

ACCESSION NUMBER:

CORPORATE SOURCE:

L9 ANSWER 1 OF 1 CASREACT COPYRIGHT 2009 ACS on STN

123:256657 CASREACT <<LOGINID::20090319>>

TITLE: Preparation of the Four Regioisomeric

2-(Methylthio)oxazolopyridines: Useful Synthons for Elaboration to 2-(Amino substituted) oxazolopyridines

Chu-Moyer, Margaret Y.; Berger, Richard

Pfizer Central Research, Groton, CT, 06340, USA

Journal of Organic Chemistry (1995), 60(17), 5721-5

CODEN: JOCEAH; ISSN: 0022-3263

American Chemical Society

Journal

DOCUMENT TYPE: LANGUAGE: English

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=> s HIV protease
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=> s 11 (L) inhibit*
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    ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
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    2004:181397 CAPLUS <<LOGINID::20090320>>
AN
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DN
TΤ
    Antiviral sulfonamide derivatives
AU
    Supuran, Claudiu T.; Innocenti, Alessio; Mastrolorenzo, Antonio;
    Scozzafava, Andrea
    Dipartimento di Chimica, Laboratorio di Chimica Bioinorganica, Universita
    degli Studi di Firenze, Sesto Fiorentino, I-50019, Italy
SO
   Mini-Reviews in Medicinal Chemistry (2004), 4(2), 189-200
    CODEN: MMCIAE: ISSN: 1389-5575
PR
   Bentham Science Publishers Ltd.
DT
    Journal: General Review
LA
   English
RE.CNT 68
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AN
    2003:368078 CAPLUS <<LOGINID::20090320>>
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Anticancer and antiviral sulfonamides

AU Scozzafava, Andrea; Owa, Takashi; Mastrolorenzo, Antonio; Supuran, Claudiu т.

Dipartimento di Chimica, Laboratorio di Chimica Bioinorganica, Universita CS degli Studi di Firenze, Sesto Fiorentino, I-50019, Italy

SO Current Medicinal Chemistry (2003), 10(11), 925-953

CODEN: CMCHE7; ISSN: 0929-8673 PB Bentham Science Publishers Ltd.

DT Journal; General Review

LA English

- RE.CNT 165 THERE ARE 165 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 2001:799024 CAPLUS <<LOGINID::20090320>>
- DN 136:95633
- TI DPC 681 and DPC 684: potent, selective inhibitors of human immunodeficiency virus protease active against clinically relevant mutant variants
- AU Kaltenbach, Robert F., III; Trainor, George; Getman, Daniel; Harris, Greg; Garber, Sena; Cordova, Beverly; Bacheler, Lee; Jeffrey, Sucan; Loque, Kelly; Cawood, Pamela; Klabe, Ronald; Diamond, Sharon; Davies, Marc; Saye, Joanne; Jona, Janna; Erickson-Viitanen, Susan
- CS Departments of Chemistry and Physical Sciences, Virology, Drug Metabolism, Pharmacy and Safety Assessment, DuPont Pharmaceuticals Co., Wilmington, DE. 19880, USA
- SO Antimicrobial Agents and Chemotherapy (2001), 45(11), 3021-3028 CODEN: AMACCQ; ISSN: 0066-4804
- PB American Society for Microbiology
- DT Journal
- LA English
- RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
- AN 1998:503133 CAPLUS <<LOGINID::20090320>>
- DN 129:239439
- OREF 129:48555a,48558a
- TI Tipranavir (PNU-140690): A Potent, Orally Bioavailable Nonpeptidic HIV
- Protease Inhibitor of the 5,6-Dihydro-4-hydroxy-2-pyrone Sulfonamide Class AU Turner, Steve R.; Strohbach, Joseph W.; Tommasi, Ruben A.; Aristoff, Paul A.; Johnson, Paul D.; Skulnick, Harvey I.; Dolak, Lester A.; Seest, Eric
  - P.; Tomich, Paul K.; Bohanon, Michael J.; Horng, Miao-Miao; Lynn, Janet C.; Chong, Kong-Teck; Hinshaw, Roger R.; Watenpaugh, Keith D.;
- Janakiraman, Musiri N.; Thaisrivongs, Suvit
  CS Department of Structural Analytical & Medicinal Chemistry, Pharmacia
- Upjohn Inc., Kalamazoo, MI, 49001, USA SO Journal of Medicinal Chemistry (1998), 41(18), 3467-3476
- CODEN: JMCMAR; ISSN: 0022-2623 PB American Chemical Society
- DT Journal
- LA English
- OS CASREACT 129:239439
- RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN AN 1996:175600 CAPLUS <<LOGINID::20090320>>
- DN 124:232064
- OREF 124:42983a,42986a
- TI Preparation of N-(3-amino-2-hydroxybutyl)sulfonamide derivatives as HIV protease inhibitors
- IN Kalish, Vincent J.
- PA Agouron Pharmaceuticals, Inc., USA
- SO PCT Int. Appl., 76 pp. CODEN: PIXXD2
- DT Patent
- LA English FAN.CNT 1
  - PATENT NO. KIND DATE APPLICATION NO. DATE

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THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE COVERS 1907 - 20 Mar 2009 VOL 150 ISS 13
FILE LAST UPDATED: 19 Mar 2009 (20090319/ED)
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1 AELVOET CHRISTINE/AU
1 AELVOET D A L G/AU
E7
E8
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E11
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E12
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            4 "AELTERMAN WIM ALBERT ALEX"/AU
L8
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               OR "AELTERMAN WIM ALBERT ALEX"/AU)
=> s 15-18
L9
           66 (L5 OR L6 OR L7 OR L8)
=> s 11 and 19
L10
           10 L1 AND L9
=> d 1-10 ibib abs
L10 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                        2007:1469854 CAPLUS <<LOGINID::20090320>>
DOCUMENT NUMBER:
                         148:100596
TITLE:
                        Preparation of aminobenzothiazolylsulfonamide
                        derivatives as HIV protease
                        inhibitors
INVENTOR(S):
                        De Kock, Herman; Jonckers, Tim Hugo Maria;
```

Boonants, Paul Jozef Gabriel Maria; Last, Stefaan Julien; Dierynck, Inge; Baumeister, Judith Eva; Van 'T Klooster, Gerben Albert Eleutherius

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 38pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI

PATI	ENT 1	NO.			KIN	D	DATE				ICAT					ATE	
WO 2	2007	1478	84		A1		2007	1227		WO 2	007-	EP56	235		2	0070	622
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	IS, IT, L																
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							2007										
							2007										
EP 2							2009									0070	
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PRIORITY	ORITY APPLN. INFO.:										006-					0060	
										WO 2	007-	EP56	235		W 2	0070	622
OTHER SO	ER SOURCE(S):					PAT	148:	1005	96								

AB The present invention relates to 2-(substituted-amino)-benzothiazole sulfonamide compds. and derivs. of formula I [R = (un)substituted piperidine or pyrrolidine ring], and their stereoisomers or pharmaceutically acceptable salts, their use as protease inhibitors, in particular as broadspectrum HTV protease inhibitors, processes for their preparation as well as pharmaceutical compns. and diagnostic kits comprising them. All the exemplar compds of the invention were tested in a cellular assay using the MT4-LTR-EGFP cells for

antiviral activity. The assay demonstrated that these compds. exhibit potent anti-HIV activity against a wild type laboratory HIV strain (WT IIIB-2-001) and are effective in inhibiting a broad range of mutant strains. For example, II [R = 1-cyclopentylpiperidin-4-yl] was prepared and showed pEC50 value of 7.88 against IIIB. The invention also concerns

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

combinations of I with another anti-retroviral agent.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

L10 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:592132 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 147:9889

TITLE: Aminophenylsulfonamide derivatives as HIV protease inhibitors, their preparation,

pharmaceutical compositions, and use in therapy
INVENTOR(S): De Kock, Herman Augustinus; Jonckers, Tim

INVENTOR(S): De Kock, Herman Augustinus; Jonckers, Tim
Hugo Maria; Last, Stefaan Julien; Boonants, Paul Jozef

Gabriel Maria; Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 41pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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			KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
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												TZ.						
			KG,	KZ,	MD,	RU,	TJ,	TM										
	ΑU	2006	3164	03		A1		2007	0531		AU 2	2006-	3164	03		2	0061	128
	CA	2628	3542			A1		2007	0531		CA 2	2006-	2628	542		2	0061	128
	ΕP	1960	404			A1		2008	0827		EP 2	2006-	8198	15		2	0061	128
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			BA.	HR.	MK,	RS												
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			I.N.									2005-						
												2006-1					0061	
HER	S	OURCE	(S):			MAR	PAT	147:	9889				00					

<sup>\*</sup> STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

The invention concerns substituted aminophenylsulfonamide compds. of AB formula I, which are protease inhibitors, in particular, broadspectrum HIV protease inhibitors. In compds. I, R1 and R2 are independently selected from H and C1-6 alkyl, optionally substituted by OH, Het, C1-6 alkoxy, C3-7 cycloalkyl, aryl, benzodioxolyl, carbamoyl, C1-6 alkoxycarbonyl, or C1-6 alkyl-C(0)-; and Het is (un)substituted 3- to 14-membered heterocyclyl ring system or (un)substituted 3- to 14-membered heteroarvl ring system; including N-oxides, stereoisomers, racemates, prodrugs, esters, metabolites, and salts thereof. The invention also concerns the preparation of I, pharmaceutical compns. comprising an effective amount of at least one compound I and a pharmaceutically tolerable excipient, optionally in combination with another anti-retroviral agent, as well as to the use of the compns. for the treatment of HIV infections. Cbz-protection of amine II followed by Boc-removal and carbamate formation with 2,5-dioxopyrrolidin-1-yl hexahydrofuro[2,3-b]furan-3-yl carbonate gave the furofuranyl carbamate, which underwent deprotection and sulfonylation with 3-fluoro-4-nitrobenzenesulfonyl chloride resulting in the formation of III. Substitution of III with 2,4-difluorobenzylamine and reduction gave aminophenylsulfonamide IV. The compds. of the invention express anti-retroviral activity, e.g., compound IV expressed EC50 values from 6.87 to 9.21 against a wild-type laboratory HIV strain and four drug-resistant strains.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:591289 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 147:9887

TITLE: Aminophenylsulfonamide derivatives as HIV

protease inhibitors, their preparation,

pharmaceutical compositions, and use in therapy
INVENTOR(S):

De Kock, Herman Augustinus; Jonckers, Tim

Hugo Maria; Last, Stefaan Julien; Boonants, Paul Jozef

Gabriel Maria; Surleraux, Dominique Louis Nestor

Ghislain; Wigerinck, Piet Tom Bert Paul PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 40pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT	TENT :	. OV			KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE	
WO	2007	0602	49		A1	_	2007	0531		WO 2	006-1	EP68:	983		2	0061	128
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		KP,	KR,	ΚZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,
		MN,	MW,	MX,	MY,	ΜZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,
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		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
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		KG,	KZ,	MD,	RU,	TJ,	TM										
ΑU	AU 2006316399				A1		2007	0531		AU 2	006-	3163	99		2	0061	128
CA	CA 2628540				A1		2007	0531		CA 2	006-	2628	540		2	0061	128

EP	1960	381			A1		2008	0827		EP	20	06-8	3198	05		2	0061	128
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		BA,	HR,	MK,	RS													
CN	1013	0498	7		A		2008	1112		CN	20	06-1	3004	1659		2	0080	508
US	2008	0306	061		A1		2008	1211		US	20	08-9	9469	7		2	0080	522
IN	2008	DNO4	416		A		2008	0815		IN	20	08-1	DN 44	16		2	0080	523
MX	2008	0068	16		A		2008	0604		MX	20	08-6	5816			2	0080	527
PRIORIT	Y APP	LN.	INFO	. :						ΕP	20	05-3	1113	93		A 2	0051	128
										WO	20	06-I	EP68	983		W 2	0061	128
OTHER S	OURCE	(S):			MARP	ΆT	147:	9887										

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

The invention concerns substituted aminophenylsulfonamide compds. of formula I, which are protease inhibitors, in particular, broadspectrum HIV protease inhibitors. In compds. I, R1 and R2 are independently selected from H. Het. Het-C1-6 alkv1-C(0)-, and C1-6 alkyl-amino-C1-6 alkyl-C(0)-, optionally substituted by Het; and Het is (un) substituted 3- to 14-membered heterocyclyl ring system or (un) substituted 3- to 14-membered heteroaryl ring system; including N-oxides, stereoisomers, racemates, prodrugs, esters, metabolites, and salts thereof. The invention also concerns the preparation of I, pharmaceutical compns. comprising an effective amount of at least one compound I and a pharmaceutically tolerable excipient, optionally in combination with another anti-retroviral agent, as well as to the use of the compns. for the treatment of HIV infections. Cbz-protection of amine II followed by Boc-removal and carbamate formation with 2,5-dioxopyrrolidin-1-yl hexahydrofuro[2,3-b]furan-3-yl carbonate gave the furofuranyl carbamate, which underwent deprotection and sulfonvlation with 3-fluoro-4-nitrobenzenesulfonyl chloride resulting in the formation of III. Substitution of III with 3-amino-1-cyclopentylpyrrolidine dihydrochloride (two-step preparation from 3-(Boc-amino)pyrrolidine given) and reduction gave aminophenylsulfonamide IV. The compds. of the invention express anti-retroviral activity, e.g., compound IV expressed EC50 values from 6.56 to 7.68 against a wild-type laboratory HIV strain and four drug-resistant strains.

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1097492 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 145:432164

TITLE: Use of a sulfonamide compound for improving the

pharmacokinetics of a drug

INVENTOR(S): Van 't Klooster, Gerben Albert Eleutherius; Wigerinck, Piet Tom Bert Paul; De Meyer, Sandra; Baert, Lieven

Elvire Colette; De Kock, Herman Augustinus

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 29pp.

CODEN: PIXXD2

DOCUMENT TYPE: Pat.ent. LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE

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WO 2006108879 A2 20061019 WO 2006-EP61614 20060414 WO 2006108879 A3 20080110
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              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
              MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
              SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
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              KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
      AU 2006234335 A1
                                20061019 AU 2006-234335
                                                                         20060414
     CA 2604799
                           A1 20061019 CA 2006-2604799
A2 20080109 EP 2006-754743
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      EP 1874307
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BA, HR, MK, YU

JP 200853896 T 20080904 JP 2008-505907 20071012

MX 2007012769 A 20080829 MX 2007-12769 20071012

CN 101175491 A 20080807 CN 2006-80012542 20071015

IN 2007DN07972 A 20071123 IN 2007-DN7972 20071016

US 20080287488 A1 20081120 US 2008-911465 20080610

PRIORITY APPLN. INFO:: EP 2005-103035 A 20054161

PRIORITY APPLN. INFO: W 2006-684283P P 20050525
              BA, HR, MK, YU
AB A method for improving the pharmacokinetics of drugs, which are
     metabolized by cytochrome P 450 monooxygenase is disclosed. More
     specifically it relates to a method for improving the pharmacokinetics of
      retroviral protease inhibitors and in particular for improving the
     pharmacokinetics of human immunodeficiency virus (HIV)
      protease inhibitors. A pharmaceutical composition and its use in the
      manufacture of a medicament for the inhibition or treatment of an HIV infection
     or AIDS in a human being are also part of the invention.
L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                          2005:300421 CAPLUS <<LOGINID::20090320>>
DOCUMENT NUMBER:
                           142:373819
TITLE:
                           Methods for the preparation of aminohydroxypropyl
                           benzooxazolesulfonamides as intermediates in the
                           preparation of HIV protease
                           inhibitors
INVENTOR(S):
                           De Kock, Herman Augustinus; Filliers,
                           Walter Ferdinand Maria: Aelterman, Wim
                           Albert Alex
PATENT ASSIGNEE(S):
                          Tibotec Pharmaceuticals Ltd., Ire.
                          PCT Int. Appl., 65 pp.
SOURCE:
                           CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                           English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
      PATENT NO.
                          KIND DATE APPLICATION NO. DATE
                           A1 20050407 WO 2004-EP52382 20040930
     WO 2005030739
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

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              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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                                               MX 2006-3575
     MX 2006003575
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                                               NO 2006-1951
     NO 2006001951
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                                                                         20060502
                                               EP 2003-103630
PRIORITY APPLN. INFO .:
                                                                        20030930
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                                                                     P
                                                                        20031002
                                               WO 2004-EP52382
                                                                        20040930
OTHER SOURCE(S):
                          CASREACT 142:373819: MARPAT 142:373819
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B Aminohydroxypropyl benzoxazolesulfonamides I [E = electrophilic moiety, PG = protecting group; R2 = H, alkyl; R3 = (un)substituted cycloalkyl, aryl, heteroaryl, alkyl; R4 = H, H02C, (un)substituted alkyl, alkoxycarbonyl, aminocarbonyl, cycloalkyl, alkenyl, alkynyl] such as II (R5 = MeS; R6 = Me3C) are prepared as intermediates in the synthesis of HIV protease inhibitors such as II (R5 = HZN; R6 = 5-thiazolylmethyl). S-alkylation of 2-benzoxazolethione followed by regioselective

sulfonylation yields an benzoxazolesulfonic acid derivative which sulfonylates an amino alc. (derived from ring opening of an epoxide with an amine) to provide I. For example, 2-mercaptobenzoxazole is methylated and the product regioselectively sulfonylated with chlorosulfonic acid and converted to the sulfonyl chloride with thionyl chloride to yield 2-(methylthio)-6-benzoxazolesulfonyl chloride. Ring opening of II-(Boc-amino)-2-phenylethylloxirane (Boc = Me3CCC) with isobutylamine yields the amine PhCHZCH(NHBOC)CH(OH)CHZNHCHZCHME2 (III). Sulfonylation of III with 2-(methylthio)-6-benzoxazolesulfonyl chloride provides II (R5 = MeS; R6 = Me3C). Heating of II (R5 = MeS; R6 = Me3C) with ammonia under pressure, cleavage of the Boc group with hydrogen chloride in isopropanol, and treatment with mono(N-hydroxysuccinimidyl) mono(5-thiazolemethyl)

carbonate yields II (R5 = H2N; R6 = 5-thiazolylmethyl).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:931343 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 140:704

TITLE: Broad-spectrum substituted benzisoxazole sulfonamide

HIV protease inhibitors, preparation thereof, pharmaceutical compositions, diagnostic kits,

and combinations with other antiretroviral agents
INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Vergouwen.

Bernhard Joanna Bernard; De Kock, Herman

Augustinus

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd, Ire.

SOURCE: PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.				KIN	D	DATE			APPLICATION NO.					DATE				
						_												
WO	2003	0976	16		A1		2003	1127		WO 2	003-	EP50	173		2	0030	516	
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw						
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	
		KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
		FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
	CA 2485903 A1 20031127																	
	2003																	
BR	2003	0100							BR 2003-10089									
EP	1517	899			A1		2005	0330	EP 2003-735707						20030516			
EP	1517	899			B1		20070829											
	R:						ES,										PT,	
			SI,	LT,			RO,											
	1668						2005											
	2005						2005											
	5364	96			A		2006									0030		
	3716				T		2007									0030		
	2292									ES 2003-735707								
	2005									US 2	004-	5145	39		2	0041	112	
US	7462	636			B2		2008	1209										

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MX 2004011466 A 20050214 MX 2004-11466 20041117

NO 2004005444 A 20050216 NO 2004-5444 20041214

ZA 2004010156 A 2005095 ZA 2004-10156 20041215

HK 1076099 A1 20080201 HK 2005-108052 20050914

RITY APEIN. INFO:: EP 2002-76957 A 20202017
PRIORITY APPLN. INFO.:
                                                                                                  WO 2003-EP50173
                                                                                                                                            W 20030516
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OTHER SOURCE(S): MARPAT 140:704

The invention discloses benzisoxazole sulfonamide derivs, and the N-oxides, salts, stereoisomers, racemic mixts., prodrugs esters, and metabolites thereof. Also disclosed are their use as broad-spectrum HIV protease inhibitors, processes for their preparation, and pharmaceutical compns. and diagnostic kits comprising them. Further disclosed are combinations of the compds. of the invention with another antiretroviral agent, and their use in assays as reference compds. or as reagents.

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:737734 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 139:261299

TITLE: Preparation of broad spectrum substituted benzimidazolesulfonamide HIV

protease inhibitors

INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul; Voets, Marieke Christiane Johanna;

Vendeville, Sandrine Marie Helene; De Kock,

Herman Augustinus; Vergouwen, Bernhard Joanna

Bernard

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 75 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT	NO.			KIN		DATE			APPL					D	ATE	
WO 2003076413			A1		20030918			WO 2003-EP50057						20030312			
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
							DK,										
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,
							MD,										
							SD,					ΤJ,	TM,	TN,	TR,	TT,	TZ,
							VN,										
	RW:	GH,															
							TM,										
							IE,										
0.3	2479						CM,										
	2003						2003									0030	
	2003																
	1485																
Lie		AT,															
	1.						RO,										11,
JP	2005																312
	1653															0030	
	2004															0040	909
US	2005	0171	175		A1		2005	0804		US 2	004-	5085	61		2	0040	910
MX	2004	0089	29		A		2004	1126		MX 2	004-	8929			2	0040	913

OTHER SOURCE(S):

MARPAT 139:261299

AB Title compds. I [R1 = H, alkyl, alkenyl, aralkyl, aralkenyl, cycloalkyl, cycloalkylalkyl, aryl, heterocyclic, heterocyclylalkyl, aminoalkyl; R2 = H, alkyl; R3 = (un)substituted alkyl, aryl, cycloalkyl; R4 = H, (un) substituted CO2H, CONH2, cycloalkyl, alkenyl, alkynyl, OH, NH2; R5 = H, (un) substituted alkyl; R6 = H, (un) substituted alkyl, NH2; L = CO, CO2, (un) substituted NHCO, OXCO, NHXCO, SO2, SO3, NHSO2, NHXSO2, where either CO or SOI2 is attached to NR2; X = alkanediyl] were prepared Thus, Me 2-benzimidazolecarbamate was chlorosulfonylated, treated with (1S, 2R)-PhCH2CH(NHBoc)CH(OH)CH2NHCH2CHMe2, deblocked, and treated with 2,6-Me2C6H3OCH2CO2H to give the title compound II which had pIC50 against HIV-1 strain LAI of 8.5.

REFERENCE COUNT: THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:888736 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 137:384835

TITLE: Preparation of 2-amino-benzoxazole sulfonamide as

broad-spectrum HIV protease

inhibitors

Surleraux, Dominique Louis Nestor Ghislain; INVENTOR(S):

Vendeville, Sandrine Marie Helene; Verschueren, Wim

Gaston; De Bethune, Marie-Pierre T. M. M. G.; De

Kock, Herman Augustinus; Tahri, Abdellah

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO	2002	0925	95		A1		2002	1121		WO	2002-	EP52	12		2	0020	510
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB	, BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN	, MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK	, SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
							YU,										
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE	, IT,	LU,	MC,	NL,	PT,	SE,	TR,
											, GW,						
CA	2444	895			A1		2002	1121		CA	2002-	2444	895		2	0020	510
AU	2002	3108	18		A1		2002	1125		AU	2002-	3108	18		2	0020	510
AU	2002	3108	18		B2		2007	1213									
EP	1387	842			A1		2004	0211			2002-						
	R:										, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR						
EE	2003 2002	0054	7		A		2004	0216		EΕ	2003- 2002-	547			2	0020	510
BR	2002	0095	94		A		2004	0330		BR	2002-	9594			2	0020	510
CN	1507	446			A		2004	0623		CN	2002-	8097	41		2	0020	510
										HU	2004-	438			2	0020	510
HU	2004	0004	38		A3		2007	0828									
JP	2004 5292	5347	57		T		2004	1118		JΡ	2002-	5894	79		2	0020	510
NZ	5292	50			A		2005	0527		NZ	2002- 2002-	5292	50		2	0020	510
	1652				A		2006	0831		AΡ	2003-	2904			2	0020	510
	2003						2005				2003-					0031	
IN	2003	DN01	588		A		2007			IN	2003-	DN15	88		2	0031	006
	8788				В1		2009			KR	2003- 2003-	7131	45		2	0031	007
	2004						2004			US	2003-	4744	85		2	0031	009
	1083						2004			BG	2003-	1083	09		2	0031	103
	2003				A		2005	0307		MX	2003-	1025	8		2	0031	110
PRIORIT:	Y APP	LN.	INFO	. :						ΕP	2001-	2017	32	- 1	A 2		
										WO	2002-	EP52	12	1	ii 2	0020	510
OTHER SO	OURCE	(S):			MARI	PAT	137:	3848	35								
GT																	

heterocyclyl, etc.; R2 = H, alkyl; L = CO, OCO, NR8CO, etc.; R3 = alkyl, cycloalkyl, aryl, etc.; R4 = H, alkoxycarbonyl, carboxy, aminocarbonyl, cycloalkyl, etc.; R5-6 = H, alkyl], N-oxides, stereoisomers, metabolites and prodrugs thereof were prepared For instance, II was prepared from the corresponding diamine (preparation described), N,N'-disuccinimidylcarbonate and 5-hydroxymethylthiazole (CH2C12, 6 h). Compds. of the invention are

effective in inhibiting a broad range of mutant HIV strains; II had pEC50 = 8.18 against HIV-1 (Lai strain). THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:814117 CAPLUS <<LOGINID::20090320>>

CODEN: PIXXD2

DOCUMENT NUMBER:

REFERENCE COUNT:

137:325410 TITLE: Broad-spectrum

2-(substituted-amino)-benzothiazolesulfonamide

HIV protease inhibitors INVENTOR(S):

Surleraux, Dominique Louis Nestor Ghislain; Wigerinck, Piet Tom Bert Paul; Getman, Daniel; Verschueren, Wim

Gaston; Vendeville, Sandrine; De Bethune,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Marie-Pierre; De Kerpel, Jan Octaaf Antoon; Moors,

Samuel Leo Christiaan; De Kock, Herman Augustinus: Voets, Marieke Christiane Johanna

Tibotec Pharmaceuticals Ltd., Ire.

PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 83 pp.

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	TENT :						DATE				ICAT				D.	ATE	
WO	2002	0836	57		A2										2	0020	214
	W:	AE, CO, GM, LS, PL, UA,	AG, CR, HR, LT, PT, UG,	AL, CU, HU, LU, RO, US,	AM, CZ, ID, LV, RU, UZ,	AT, DE, IL, MA, SD, VN,	AU, DK, IN, MD, SE, YU,	AZ, DM, IS, MG, SG, ZA,	BA, DZ, JP, MK, SI, ZM,	EC, KE, MN, SK, ZW		ES, KP, MX, TJ,	FI, KR, MZ, TM,	GB, KZ, NO, TN,	GD, LC, NZ, TR,	GE, LK, OM, TT,	GH, LR, PH, TZ,
	RW:										TZ,						
											GW,						
CA	2438																
AII	2002	3023	63		A1		2002	1028		AU 2	2002-	3023	63		2	0020	214
AU	2002 2002	3023	63		B2		2008	0501									
EE	2003 1370	0038	1		A		2003	1215		EE 2	2003-	381			2	0020	214
EP	1370	543	_		A2		2003	1217		EP 2	2002-	7299	3.0		2	0020	214
EP	1370	543			B1		2006	1025									
	R:	AT.	BE,	CH,	DE,	DK,	ES.	FR.	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
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HU	2003	0032	57		A2		2004	0128		HU 2	2003-	3257			2	0020	214
BR	2002	0078	62		A		2004	0622		BR 2	2002-	7862			2	0020	214
JP	2004	5187	67		T		2004	0624		JP 2	2002-	5814	13		2	0020	214
CN	2004 1525	962			A		2004	0901		CN 2	2002-	8049	82		2	0020	214
CN	1003	6990	4		C		2008	0220									
NZ	5273	91			A		2005	0429		NZ 2	2002-	5273	91		2	0020	214
AP	1504				A		2006	0228		AP 2	2003-	2856			2	0020	214
	W:	GM,	GH,	KE,	LS,	MW,	MZ,	SL,	SD,	SZ,	TZ,	UG,	ZM,	ZW			
AT	3435	67			T		2006	1115		AT 2	2002-	7299	30		2	0020	214

	2275866	Т3	20070616		2002-729930		20020214
CN	101230067	A	20080730	CN	2007-10199717		20020214
ZA	2003006086	A	20041108	za	2003-6086		20030806
US	20040116485	A1	20040617	US	2003-467609		20030807
KR	870184	B1	20081124	KR	2003-710506		20030808
IN	2003DN01269	A	20050527	IN	2003-DN1269		20030811
NO	2003003584	A	20031014	NO	2003-3584		20030813
NO	326174	B1	20081013				
MX	2003007236	A	20031204	MX	2003-7236		20030813
BG	108143	A	20040730	BG	2003-108143		20030901
HK	1061233	A1	20070427	HK	2004-104020		20040603
PRIORIT:	APPLN. INFO.:			EP	2001-200529	A	20010214
				US	2001-287758P	P	20010502
				CN	2002-804982	А3	20020214
				WO	2002-EP1788	W	20020214

OTHER SOURCE(S): MARPAT 137:325410

GI

AB Title compds. I [R1, R8 = H, (un)substituted alkyl, alkenyl, cycloalkyl, aryl, heterocyclyl, heterocyclylalkyl; R2 = H, alkyl; L = CO, O2C, (un) substituted NHCO, oxoalkylcarbonyl, aminoalkylcarbonyl, SO2, O3S, NHSO2; R3 = alkyl, aryl, cycloalkyl, cycloalkylalkyl, aralkyl; R4 = H, alkoxycarbonyl, carboxy, (un) substituted CONH2, cycloalkyl, alkenyl, alkynyl (un) substituted alkyl; A = alkanediyl, CO, CS, SO2, oxoalkanediyl, thioalkanediyl, alkanediylsulfonyl; R5 = H, OH, alkyl, heterocyclylalkyl, (un) substituted aminoalkyl; R6 = alkoxy, heterocyclyl, heterocyclyloxy, aryl, aryloxy, alkoxycarbonylamino, amino; and when A is other than alkanedivl then R6 may also be alkyl, heterocyclylalkyl, heterocyclyloxyalkyl, aralkyl, aryloxyalkyl, (un)substituted aminoalkyl; R5NAR6 = heterocyclic) their N-oxides, salts, stereoisomeric forms, racemic mixts., prodrugs, esters and metabolites were prepared I are useful as broad-spectrum HIV protease inhibitors, and may be formulated in diagnostic kits. Thus, the sulfonamide II, prepared in several steps from the benzothiazolecarbamate, showed activity against a number of resistant mutants of HIV-1 strain LAI.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2002:793630 CAPLUS <<LOGINID::20090320>>

DOCUMENT NUMBER: 137:310904

TITLE: Preparation of 2-(substituted-amino)benzoxazole

sulfonamides as broadspectrum HIV

protease inhibitors

INVENTOR(S): Surleraux, Dominique Louis Nestor Ghislain;

Vendeville, Sandrine Marie Helene; Verschueren, Wim Gaston; De Bethune, Marie-Pierre T. M. M. G.; De Kock, Herman Augustinus; Tahri, Abdellah; Erra

Sola, Montserrat

PATENT ASSIGNEE(S): Tibotec Pharmaceuticals Ltd., Ire.

SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

FAMILY	ACC.	NUM.	COUN
PATENT	INFOR	RMATI	: NC

PA	TENT NO.	KI	ND DATE	APPLICATION NO.	
				WO 2002-EP4012	
WO	2002001470	7.	20021017	WO 2002-EF4012	20020403
WO				BA, BB, BG, BR, BY,	B7 CA CH CN
				DZ, EC, EE, ES, FI,	
				JP, KE, KG, KP, KR,	
				MK, MN, MW, MX, MZ,	
				SI, SK, SL, TJ, TM,	
			VN, YU, ZA,		111/ 111/ 11/ 12/
				SL, SZ, TZ, UG, ZM,	ZW. AM. AZ. BY.
				BE, CH, CY, DE, DK,	
				SE, TR, BF, BJ, CF,	
	GN, GO	, GW, ML	MR, NE, SN,	TD, TG	
CA	2442870	. A.	1 20021017	CA 2002-2442870 AU 2002-257774	20020409
AU	2002257774	A:	1 20021021	AU 2002-257774	20020409
AII	2002257774	B.	20070830		
EE	200300494	A	20031215	EE 2003-494	20020409
HII	2003003744	Δ.	20040301	HII 2003-3744	20020409
HU	2003003744	A:	3 20080328	BR 2002-8796 EP 2002-727554	
BR	2002008796	A	20040309	BR 2002-8796	20020409
EP	1397367	A:	2 20040317	EP 2002-727554	20020409
	R: AT, BE	, CH, DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	NL, SE, MC, PT,
	IE, SI	, LT, LV	FI, RO, MK,	CY, AL, TR	
JP	2004529144	T	20040924	JP 2002-579466 NZ 2002-528954 CN 2002-811480 AP 2003-2882	20020409
NZ	528954	A	20050429	NZ 2002-528954	20020409
CN	1636006	A	20050706	CN 2002-811480	20020409
AP	1544	A	20060228	AP 2003-2882	20020409
	W: GM, GH	, KE, LS	, MW, MZ, SL,	SD, SZ, TZ, UG, ZM,	ZW
BG	108218	A	20040930	BG 2003-108218 ZA 2003-7683 IN 2003-DN1589	20031001
ZA	2003007683	A	20050103	ZA 2003-7683	20031001
IN	2003DN01589	A	200/0223	IN 2003-DN1589	20031006
US	20040132791	A.	20040/08	US 2003-4/4162	20031007
US	1244/52	B	2 200/0/1/	IN 2003-DN1589 US 2003-474162 KR 2003-713144	20021007
KR	0/2029	В.	20081205	NO 2003 4505	20031007
NO	2003004505	A	20031208	NO 2003-4505 MX 2003-9179 US 2007-626183	20031008
MA.	2003009179	A.	20041122	HA 2003-91/9	20031008
DDTODIT	20070135447 Y APPLN. INF	Α.	200/0014	EP 2001-201308	7 20010400
ENTORIT	T VEETIN' TIME	· · ·		US 2001-201306	
				05 2001-20//04F	1 20010302

OTHER SOURCE(S):

MARPAT 137:310904

Benzoxazole sulfonamides of formula I [R1 = H, alkyl, alkenyl, arylalkyl, aryl, etc.; R2 = H, alkyl; R3 = alkyl, aryl, cycloalkyl, cycloalkyl-alkyl, arylalkyl; R4 = H, alkyloxycarbonyl, carboxyl, aminocarbonyl, etc.; R5 = H, OH, alkyl, etc.; R6 = alkyloxy, aryl, aryloxy, etc.; L = CO, O-CO, NHCO, O-alkyl-CO, SO2, etc.; A = alkylene, CO, CS, SO2, etc.] are prepared as broad-spectrum HIV protease inhibitors. The compds. can also be combined with another anti-retroviral agent, and be

used in assays as reference compds. or as reagents. Thus, II was prepared, and was effective in inhibiting a broad range of mutant strains in a cellular assay.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT